QC ABSTRACT

NAME OF WORK: Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Brick	Compressive Strength	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		EFFLORESCENCE	One Test		1	1
		DIMENSIONS AND TOLERANCES	One Test		1	1
8	PCC(M15)	Compressive Strength(7days and 28days)	1 set		2	2
9	PCC(M15)	Compressive Strength(7days and 28days)	1 set		2	2

10	PCC(M15)	Compressive Strength(7days and 28days)	1 set		2	2
11	RCC(M25)	Compressive Strength(7days and 28days)	3 set /16-30 cum	19.43	6	6
12	RMC(M25)	Compressive Strength(7days and 28days)	8 set /201-250 cum	219.75	16	16
13	RMC(M20)	Compressive Strength(7days and 28days)	3 Sets	18.68	6	6
14	RMC(M20)	Compressive Strength(7days and 28days)	1 Set	8.1	2	2
15	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
16	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-13-24** **Date: 15-10-20**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	12-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	13-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.87	–
2	Finess by Air permeablity method (m^2/kg,Min)	298.7	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-13-24** **Date: 15-10-20**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	12-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)
		IS: 2386 :1963(Part - 1,3,4) RA2011
		IS 2386 Part 1: Particle Size and Shape
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
		IS 2386 Part 4: Mechanical Properties
Date of test	:	12-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	7875	8120	54.1	45.9	30-70
4	10 mm	3899	12019	80.1	19.9	10-35
5	4.75 mm	2588	14607	97.4	2.6	0-5
6	Pan	393	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-13-24** **Date: 14-10-20**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	12-10-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	298	298	6.0	94.0	90-100
3	10 mm	2645	2943	58.9	41.1	25-55
4	4.75 mm	1811	4754	95.1	4.9	0-10
5	Pan	246	5000	100	0	-

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-13-24 **Date: 14-10-20**

Project Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Agency : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

Customer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Date of Receipt : 12-10-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 12-10-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-02-13-24** **Date: 14-10-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig.....Date..... BANGALORE

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID	:	**CP-2021-02-13-24** **Date: 20-10-20**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	14-10-20
Identification Mark on Brick	:	Wire Cut Brick
Reference to BIS codes	:	IS 1077 : 1992(RA 2011) Common Burnt Clay Building Bricks-Specification IS 3495 (Part 1 to 3) : 1992(RA 2011) Method of Tests Burnt Clay Building Bricks Part 1:Determination of Compressive Strength, (Cl 4.2.3) Part 2:Determination of Water Absorption,(Cl 4.1.3) Part 3: Determination of Efflorescence, (Cl 4)
Date of test	:	14-10-20

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COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

CIVIL Pro Sig..... Date..... BANGALORE

Lab ID : CP-2021-02-13-24 Date: 20-10-20

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than 'moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2021-02-13-24
		Date: 27/10/2020
ject Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
ency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
te of Receipt	:	21-10-20
stomer ID	:	GF Flooring Concrete For Telugu School
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	26/10/2020

L).	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	GF Flooring Concrete	M20	19/10/2020	26/10/2020	149.05 X 151.16 X 151.00	22531	8.252	282.4	12.5	12.5
	GF Flooring Concrete	M20	19/10/2020	26/10/2020	149.38 X 150.96 X 150.87	22552	8.528	288.2	12.8	
	GF Flooring Concrete	M20	19/10/2020	26/10/2020	149.26 X 149.33 X 150.00	22290	8.705	270.2	12.1	

he results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2021-02-13-24 **Date: 27/10/2020**
)ject Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
ency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
stomer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
te of Receipt	:	21-10-20
stomer ID	:	FF Flooring Concrete For Telugu School
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	26/10/2020

L o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	FF Flooring Concrete	M20	19/10/2020	26/10/2020	149.46 X 149.13 X 149.11	22290	8.252	273.5	12.3	12.2
2	FF Flooring Concrete	M20	19/10/2020	26/10/2020	151.33 X 149.24 X 151.98	22584	8.528	273.3	12.1	
3	FF Flooring Concrete	M20	19/10/2020	26/10/2020	150.53 X 150.80 X 149.75	22701	8.705	280.7	12.4	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-02-13-24 **Date: 27/10/2020**
ect Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
ıcy	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
tomer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
: of Receipt	:	22-10-20
tomer ID	:	SF Flooring Concrete For Telugu School
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
: of test	:	27/10/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
SF Flooring Concrete	M20	20/10/2020	27/10/2020	149.35 X 149.89 X 149.46	22386	8.252	279.1	12.5	12.4
SF Flooring Concrete	M20	20/10/2020	27/10/2020	151.92 X 150.08 X 151.77	22800	8.528	286.1	12.5	
SF Flooring Concrete	M20	20/10/2020	27/10/2020	150.67 X 150.32 X 150.60	22650	8.705	274.9	12.1	

ıe results obtained are satisfactory as per standard requirements.

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TEST REPORT FOR SAND MASONRY MORTARS

b ID : CP-2021-02-13-24 Date: 31-10-20

HYSICAL PROPERTIES

.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	Compacted Bulk Density (Kg/litre)	1.90	–
5	Loose Bulk Density (Kg/litre)	1.73	–

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2021-02-13-25

Date: 25/02/2021

ect Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

ıcy : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

omer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

of Receipt : 20-02-21

omer ID : Copping Concrete For SSM (Shiva Temple)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 25/02/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Copping Concrete For SSM	M20	18/02/2021	25/02/2021	150.59 X 151.83 X 151.79	22865	8.435	432.8	18.9	18.6
Copping Concrete For SSM	M20	18/02/2021	25/02/2021	151.83 X 151.31 X 149.26	22973	8.332	426.1	18.5	
Copping Concrete For SSM	M20	18/02/2021	25/02/2021	150.29 X 150.90 X 151.19	22679	8.714	415.0	18.3	

results obtained are satisfactory as per standard requirements.

A.E.E

FOR CIVIL Pro.

CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2021-02-13-25

Date: 18/03/2021

ect Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelchanka Division.(Package-11)

ncy : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

omer's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

of Receipt : 20-02-21

omer ID : Copping Concrete For SSM (Shiva Temple)

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 18/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Copping Concrete For SSM	M20	18/02/2021	18/03/2021	149.61 X 151.03 X 151.82	22595	8.015	529.7	23.4	23.1
Copping Concrete For SSM	M20	18/02/2021	18/03/2021	149.85 X 149.57 X 150.09	22413	8.242	506.3	22.6	
Copping Concrete For SSM	M20	18/02/2021	18/03/2021	149.97 X 151.36 X 151.83	22700	8.722	530.2	23.4	

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results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-13-24** **Date: 01-12-20**
Project Name	:	Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)
Agency	:	M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064
Customer's Reference	:	BBMP/EE/YNK.D/W.O/260/2019-20
Date of Receipt	:	02-11-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	03-11-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
SLNo.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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b ID : CP-2021-02-13-24

Date: 12-11-20

OMPRESSIVE STRENGTH:

L No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	404	199	80391	433.6	5.4	5.4
2	402	202	81168	447.5	5.5	
3	402	201	80858	428.1	5.3	
4	401	200	80126	444.8	5.6	
5	400	201	80261	422.6	5.3	
6	400	201	80436	419.1	5.2	
7	400	201	80210	440.4	5.5	
8	400	201	80371	428.4	5.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-13-24 Date: 02/12/2020

lame : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

r's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 27-11-20

er ID : GF Column Concrete, For Bangla School

Type /Size : 150X150X150 mm

grade/Age : M25 / 7 Days Compressive Strength

ace to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 02/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
GF Column Concrete	M25	25/11/2020	02/12/2020	150.57 X 151.06 X 150.08	22745	8.619	527.7	23.2	22.7
GF Column Concrete	M25	25/11/2020	02/12/2020	151.77 X 150.91 X 149.46	22902	8.779	522.4	22.8	
GF Column Concrete	M25	25/11/2020	02/12/2020	151.75 X 150.39 X 151.91	22822	8.473	502.4	22.0	

e results obtained are satisfactory as per standard requirements.

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Page 1/1
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Certificate No.: TC-5548

Format No. CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-13-24

Date: 01/04/2021

Name : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

er's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 27-03-21

ıer ID : GF Staircase Concrete, For Bangla School

Type /Size : 150X150X150 mm

grade/Age : M25 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 01/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
GF Staircase Concrete	M25	25/03/2021	01/04/2021	151.17 X 151.77 X 150.59	22943	8.619	545.9	23.8	23.0
GF Staircase Concrete	M25	25/03/2021	01/04/2021	149.01 X 149.62 X 151.50	22293	8.779	497.7	22.3	
GF Staircase Concrete	M25	25/03/2021	01/04/2021	150.22 X 150.99 X 151.38	22681	8.473	521.2	23.0	

se results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-13-24

Date: 09/12/2020

ame : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

r's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

Receipt : 04-12-20

r ID : GF Chajja Concrete, For Bangla School

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 09/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
GF Chajja Concrete	M20	02/12/2020	09/12/2020	149.39 X 149.38 X 150.47	22316	8.480	407.8	18.3	18.5
GF Chajja Concrete	M20	02/12/2020	09/12/2020	149.52 X 150.49 X 151.08	22501	8.495	427.2	19.0	
GF Chajja Concrete	M20	02/12/2020	09/12/2020	150.59 X 150.06 X 150.46	22598	8.185	412.6	18.3	

e results obtained are satisfactory as per standard requirements.

A.E.E

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-13-24

Date: 09/12/2020

ame : Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

: M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

r's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

teceipt : 04-12-20

r ID : GF Chajja Concrete, For Bangla School

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

ice to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 09/12/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
GF Chajja Concrete	M20	02/12/2020	09/12/2020	149.10 X 149.01 X 151.62	22218	8.480	408.1	18.4	18.5
GF Chajja Concrete	M20	02/12/2020	09/12/2020	151.30 X 150.87 X 151.16	22826	8.495	416.3	18.2	
GF Chajja Concrete	M20	02/12/2020	09/12/2020	150.44 X 149.24 X 151.67	22451	8.185	423.5	18.9	

e results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-13-24

Date: 30/12/2020

: Construction of Buildings and Other Civil Works and Playgournds in Ward No -01, 03 & 04 Under Buildings/ Playgrounds / Hospitals Head in Chief Minister Nava Nagarothan Grants of Yelahanka Division.(Package-11)

Name : M/s SMLP Asphalts, Prop.Sri B.B.Umesh, No:1265 Next to Andhara Bank, Major Sandeep Unnikrishnan Road, Yelahanka New Town Bangalore-560064

nser's Reference : BBMP/EE/YNK.D/W.O/260/2019-20

of Receipt : 04-12-20

mer ID : GF Loft Concrete, For Bangla School

ple Type /Size : 150X150X150 mm

ple grade/Age : M20 / 28 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 30/12/2020

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	GF Loft Concrete	M20	02/12/2020	30/12/2020	150.53 X 150.49 X 150.86	22654	8.339	535.8	23.7	22.9
	GF Loft Concrete	M20	02/12/2020	30/12/2020	150.38 X 150.61 X 149.83	22649	8.725	498.4	22.0	
	GF Loft Concrete	M20	02/12/2020	30/12/2020	151.36 X 150.22 X 150.96	22739	8.835	525.7	23.1	

The results obtained are satisfactory as per standard requirements.

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Page 1/1
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